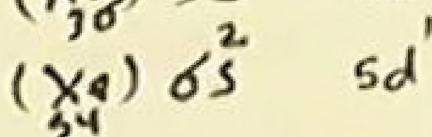
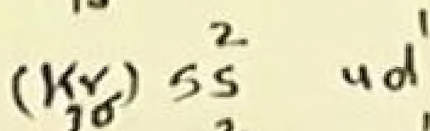
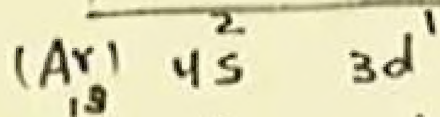
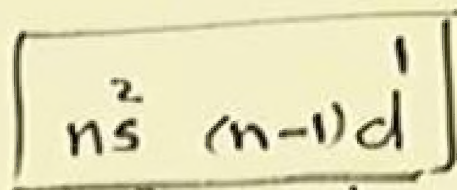


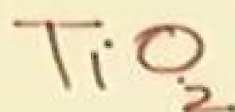
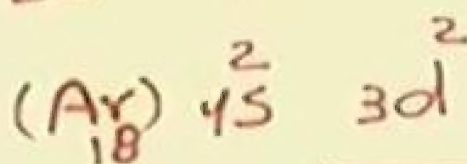
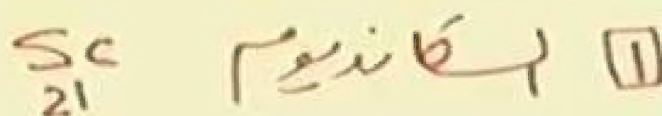
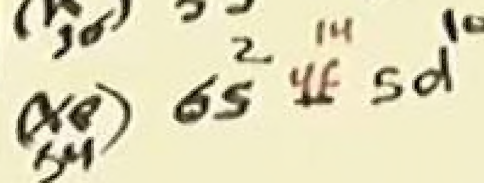
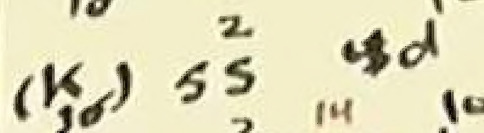
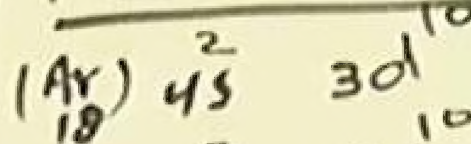
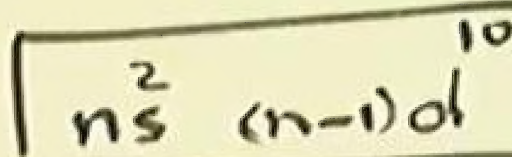
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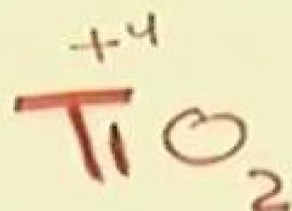
III B	IV B	V B	VI B	VII B	VIII			IX B	X B
3B	4B	5B	6B	7B	8			1B	2B
سكندريوم	تيتانيوم	فاناديوم	كروم	منغنيز	حديد	كوبالت	نيكل	نحاس	فاناديوم
Sc 21	Ti 22	V 23	Cr 24	Mn 25	Fe 26	Co 27	Ni 28	Cu 29	Zn 30
%0.66		%0.11		%5.1					

III B



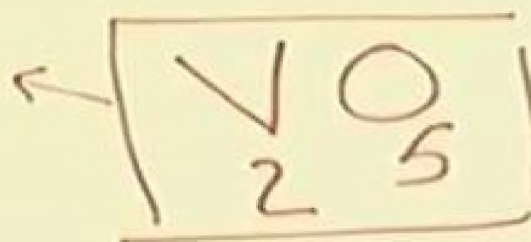
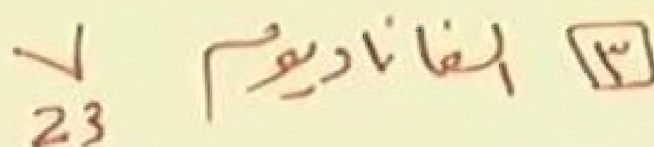
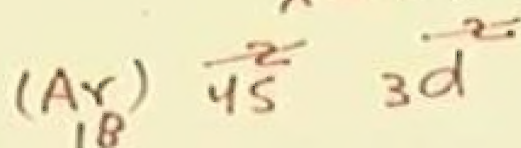
II B





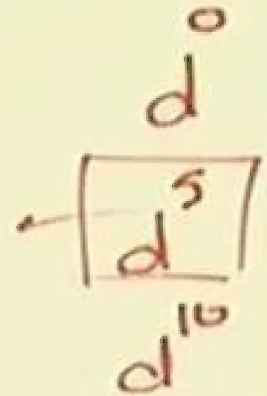
$$(2X - 2) + X = 0$$

$$X = +4$$

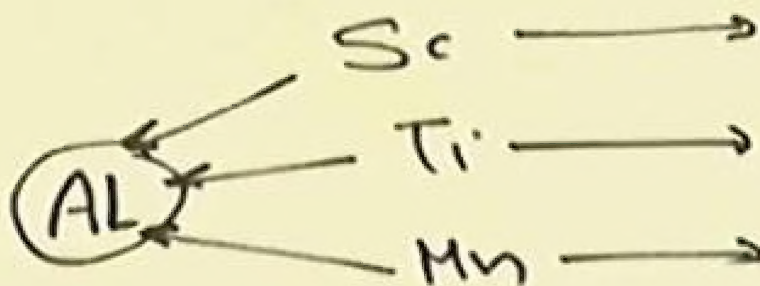


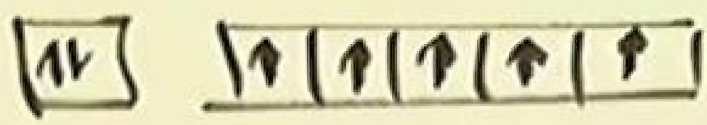
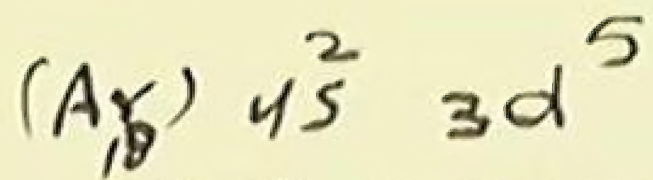
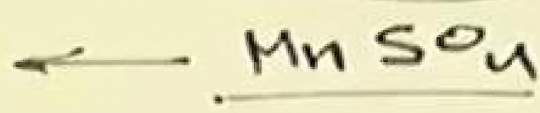
(٤) الكروم Cr_{24}

(Ar) $4s^1 3d^5$

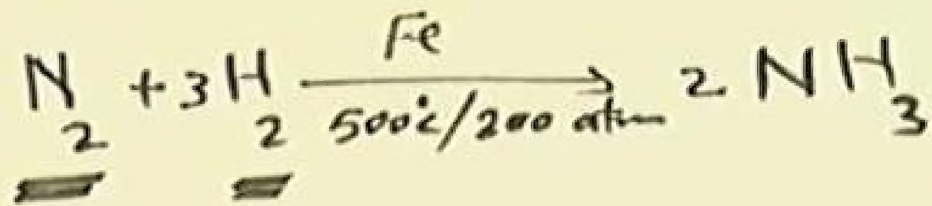


(٥) المنغنيز Mn_{25}



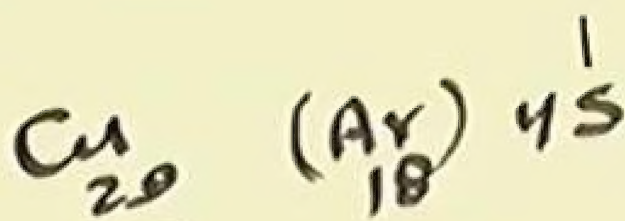


الحديد $\boxed{٦}$
 Fe
26



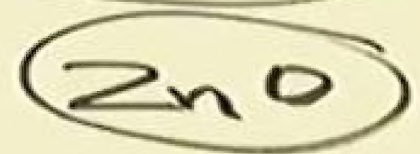
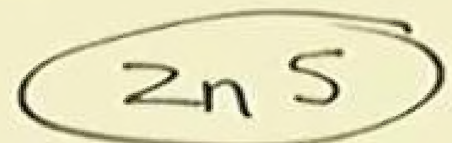
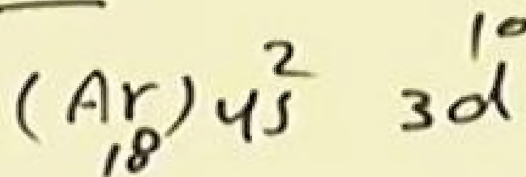
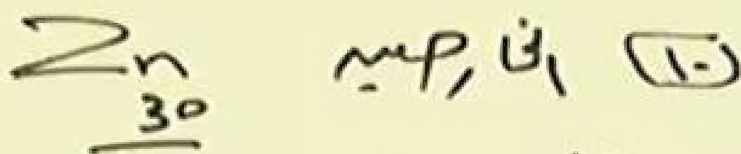
الكوبلت $\boxed{٧}$
 Co
27

النيسكل $\boxed{٨}$
 Ni
28

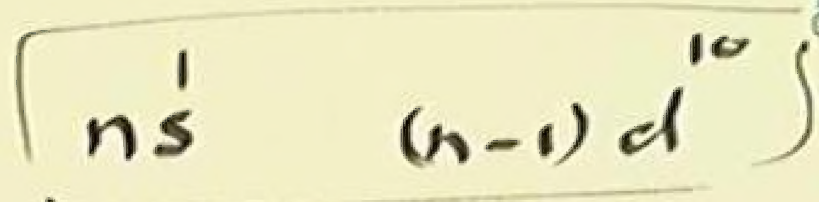


CuSO_4 ← صبيد كسرى

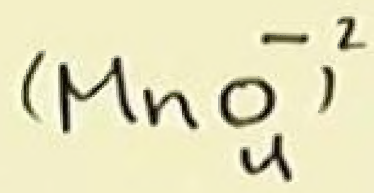
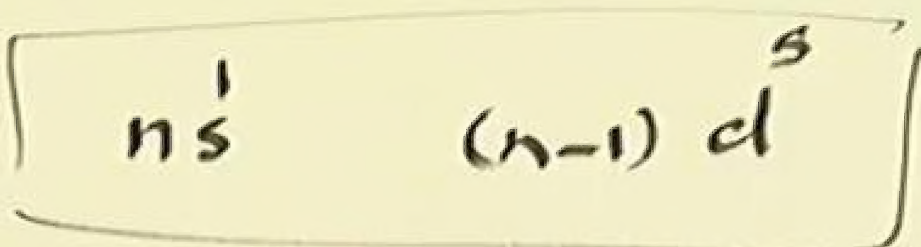
← صبيد للفطريات في المياه
تفقيت مياه الشرب



IB

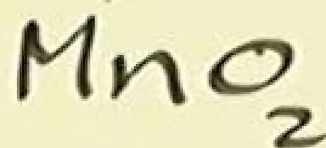


VB



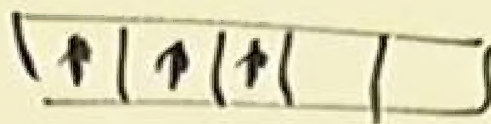
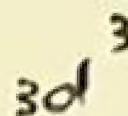
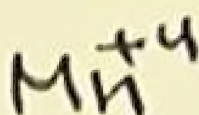
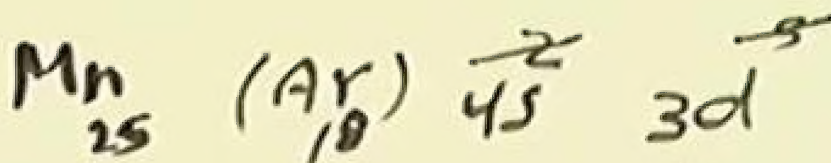
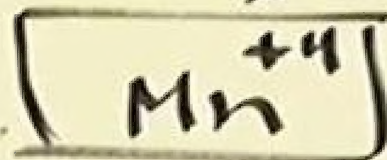
$$(4 \times -2) + X = -2$$

$$\text{Mn}^{+6} \quad X = 6$$

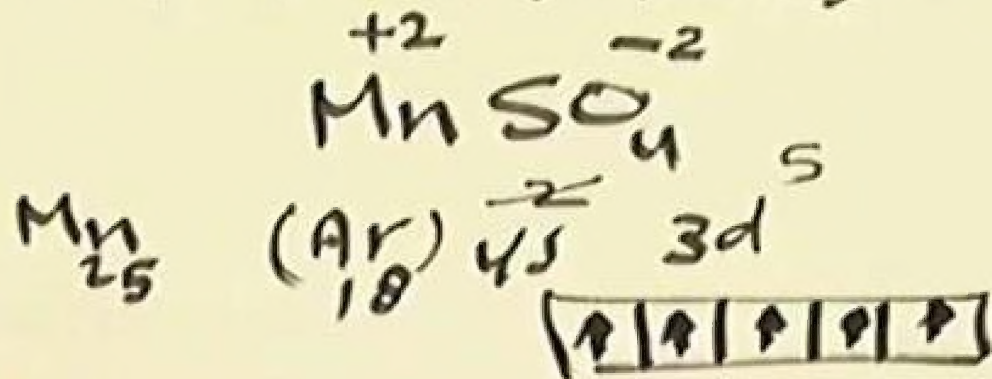


$$(2x-2) + x = 0$$

$$x = +4$$



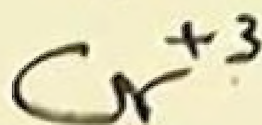
سبب عدم التفرقات الحرة لـ Mn^{2+}
التي هي في الترتيب Mn^{2+} SO_4^{2-} Mn^{2+} SO_4^{2-}

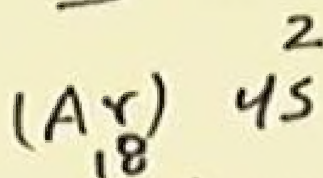
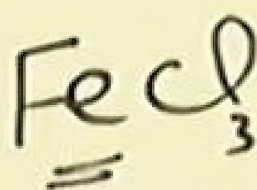
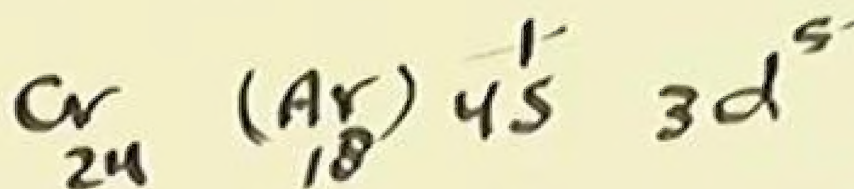


$$2x + (3x - 2) = 0$$

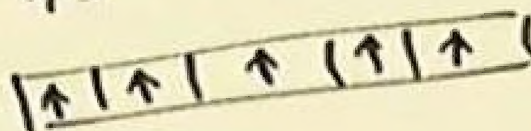
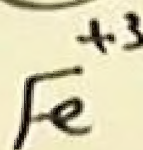
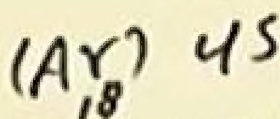
$$2x = +6$$

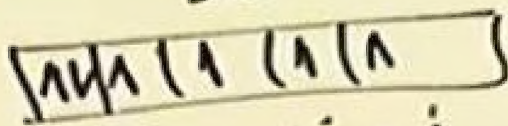
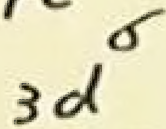
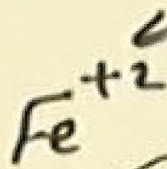
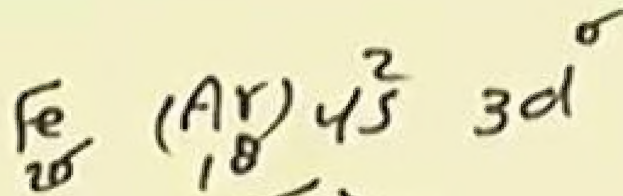
$$x = +3$$





Zero





نيرسفر

